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TITLE

An Ostomy Appliance

BACKGROUND OF THE INVENTION

5 1. Field of the Invention

The present invention relates to an ostomy appliance body side member, an ostomy appliance comprising such body side member, to an ostomy sealing member, to a one-piece ostomy appliance, and to methods of applying an ostomy appliance body side member or a one-piece ostomy appliance around a stoma.

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In connection with surgery for a number of diseases in the gastro-intestinal or urinary tract a consequence is, in many cases, that the colon, the ileum or the ureter has been exposed surgically and the patient is left with an abdominal stoma, or, in nephrostomy or ureterostomy, the ureter or a catheter is exposed in the back or the chest region or abdominal region, and the effluents or waste products of the body, which are conveyed through these organs, are discharged through the artificial orifice or opening and are collected in a collection bag, which is usually adhered to the skin by means of an adhesive wafer or plate having an inlet opening for accommodating the stoma/ureter/catheter. Also in connection with a fistula, the patient will have to rely on an appliance to collect the bodily material emerging from such opening.

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Ostomy appliances are well known. Such appliances may be two-piece or one-piece appliances. In both types of appliances, an adhesive barrier member (or base plate) is attached to the wearer's abdomen/back/chest. In case of a one-piece appliance, a receiving member or bag is attached to the base plate. In case of a two-piece appliance, the adhesive barrier member forms part of a body side member and a receiving member or bag is attached releasably to the body side ostomy member for receiving exudates from the stoma.

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When using one-piece appliances, the whole appliance, including the adhesive skin barrier securing the appliance to the skin is normally removed and replaced

by a fresh appliance. When using two-piece appliances, the body side ostomy member is left in place up to several days, and only the receiving member or bag attached to the body side member is replaced. The attachment means for attaching an ostomy receiving bag may e.g. be a system comprising matching coupling rings or matching flanges and adhesive surfaces engaging with and sealing against a flange area of the body side member.

It is necessary to change the body side member of a two-piece appliance when the centre part of the adhesive wafer has been sufficiently deteriorated to allow access of the aggressive exudates to the skin surrounding the stoma, irrespective of the fact that the wafer as such has a much longer wearing time. The access of aggressive exudates to the skin is causing skin problems.

Frequent changing of the body side member of a two-piece appliance is undesirable due to the irritation of the skin and the quality of life of the user may be improved and the nuisance of the wearing of an ostomy appliance reduced if the intervals between exchanging of body side member can be increased.

The service time of the body side ostomy member depends *inter alia* of the amount and the aggressiveness of the exudates and of the sealing between the stoma and the body side ostomy member.

The sealing depends on the fit to the stoma. Conventionally, only a limited number of standard appliances having holes of different size are available and the user or an assistant must customise the body side member by cutting the edge of the hole to adapt the body side member to the stoma. However, the resulting hole may show an exposed edge which may injure the surface of the stoma e.g. when the user bends or turns due to the exposed edge of the carrier sheet which after cutting even may show a serrated edge.

2. Description of the Related Art

Published International Patent Application No. WO 98/53771 discloses an ostomy appliance comprising a body side member comprising an adhesive wafer for securing the appliance to the user's skin, said wafer having a hole for receiving a
 5 stoma, and an optionally separately exchangeable receiving member or bag secured to the body side ostomy member for receiving secretions from the ostomy said ostomy appliance further comprising a sealing member disposed in the hole of the wafer surrounding the stoma wherein the sealing member disposed in the hole of the wafer surrounding the stoma, said sealing member
 10 having a hole for accommodating the stoma and said sealing member having balanced plastic and elastic properties allowing a better adaptation of the hole of the ostomy appliance to a stoma by a temporary enlarging the hole by everting or rolling up the inner rim of the hole for accommodating the stoma.

15 When the ostomy appliance disclosed in WO 98/53771 has been placed over and around a stoma the adhesive sealing member may recover essentially to the original form to fit snugly to the stoma. The "release" may be performed using e.g. a finger or more or less automatically due to influence by elastic force, heat and/or humidity causing the sealing member to essentially resume its original
 20 shape.

However, there is still a risk of constriction of the stoma due to elastic properties of the adhesive forming the wafer, which may cause harm to the stoma and which cannot be controlled after application.

25 Thus, there is still a need for a sealing against a stoma ensuring that no leak occurs at the rim of the stoma in order to prolong the service time of the appliance, which ensures an easy adaptation to the actual user and at the same time reduces the risk of causing injury to or constriction of the stoma.

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SUMMARY OF THE INVENTION

- The invention relates to an ostomy appliance body side member comprising an adhesive wafer having a first adhesive surface for securing the appliance to the user's skin, said wafer having a second surface being covered with a carrier
- 5 sheet which wafer has a hole for receiving a stoma wherein the part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole by rolling up the inner rim thereof for accommodating the stoma.
- 10 The invention furthermore relates to an ostomy sealing member in the form of a mouldable mass or ring which shows a sufficient adhesiveness to adhere to the skin and seal around an ostomy and between the ostomy and an ostomy appliance adapted to receive secretions from the stoma, which sealing member
- 15 shows a sufficient cohesion to be removed in one piece, independently of removal of the ostomy appliance body side member without leaving remaining adhesive on the skin or the ostomy appliance, said sealing member having a hole for accommodating a stoma and said sealing member having balanced plastic and elastic properties allowing an enlarging of the hole for receiving a stoma by
- 20 rolling the inner rim of the hole.
- Still further, the invention relates to a one-piece ostomy appliance comprising an adhesive wafer having a first adhesive surface for securing the appliance to the user's skin, said wafer having a second surface being covered with a carrier
- 25 sheet to which a receiving bag is secured, which wafer has a hole for receiving a stoma wherein the part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma.
- 30 Still further, the invention relates to a methods for applying an ostomy body side member, an ostomy sealing member or a one-piece ostomy appliance comprising an adhesive wafer having a first surface for securing the appliance to the user's

skin, said wafer having a second surface being covered with a carrier sheet which wafer has a hole for receiving a stoma wherein the part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma.

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Brief Description of the Drawings

The invention is disclosed more in detail with reference to the drawings in which Fig. 1 shows a cross sectional view of a state of the art body side member, Fig. 2 shows a cross sectional view of an embodiment of a body side member according to the invention, Fig. 3 shows a cross sectional view of an embodiment of a sealing member according to the invention, Fig. 4 shows a cross sectional view of the embodiment of Fig. 3 wherein the inner rim of a sealing member has been rolled up, Fig. 5 shows a view from the distal side of the separate sealing member of Fig. 3 in which the inner rim thereof has been partially rolled up to increase the size of the hole of an ostomy appliance of the invention and showing the indication of the size of the hole placed on a release liner below, Fig. 6 shows an exploded sectional view of a second embodiment of a body side member of the invention, Fig. 7 shows an exploded sectional view of a one-piece ostomy appliance according to the invention, and Fig. 8 shows a cross sectional view of the embodiment of Fig. 7 wherein the inner rim of a sealing member has been rolled up.

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Detailed Description of the Present Invention

The present invention relates to an ostomy appliance body side member comprising an adhesive wafer having a first adhesive surface for securing the appliance to the user's skin, said wafer having a second surface being covered with a carrier sheet which wafer has a hole for receiving a stoma wherein a part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance

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to a stoma by enlarging the hole for accommodating the stoma by rolling up the inner rim thereof forming a torus and wherein a part of the second surface of the wafer surrounding the hole shows surface properties compatible with the first adhesive surface of the adhesive wafer locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface.

The ostomy appliance of the invention provides an ostomy appliance enabling a simple, safe and reliable customisation of the hole of a body side member without the use of tools and at the same time reduces the risk of causing injury to or constriction of the stoma.

The elastic properties of the area around the hole of a body side member, a sealing member, or a one-piece ostomy appliance according to the invention and the adhesiveness of the adhesive surface products are chosen to ensure that when rolling up the inner rim of the hole, a torus is formed, and the torus will be locked in its rolled position by the contact to the surface surrounding the stoma and the torus will not unroll.

The present invention provides a freedom in the choice of the adhesive having the most suitable adhesive properties without having to consider the elasticity of the adhesive. Thus, a very elastic adhesive may be used, which is often desirable as such adhesives often show a high degree of cohesion rendering it more easy to remove the adhesive without leaving residues on the skin and also often show a higher resistance to leaching of constituents of the adhesive prolonging the service time of the body side member. Furthermore, the edge of a carrier sheet will be covered by the rolled adhesive layer, which will then constitute the surface contacting the stoma, and thus, direct contact between the edge and the surface of the stoma is avoided.

It is preferred that the adhesive wafer is made from an adhesive comprising hydrocolloids for providing a capacity for absorbing humidity for prolonging the

service time. The use of a hydrocolloid-containing adhesive will also provide for an automatic sealing against the surface of the stoma after rolling the edge of the hole of the ostomy appliance due to the expansion of the adhesive upon absorption of humidity.

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In one embodiment of the invention the part of the second surface surrounding the hole shows adhesive properties compatible with the first adhesive surface of the adhesive wafer.

- 10 In a preferred embodiment the second surface of a part of the carrier sheet surrounding the stoma is provided with a hydrophobic adhesive.

A hydrophobic adhesive not comprising water-absorbing constituents is more stable against the action of aggressive exudates, which will delay the

- 15 deterioration of the adhesive wafer, especially when the entire surface within the boundaries of the coupling is covered. In a preferred embodiment of the invention the hydrophobic adhesive loses its adhesiveness when wetted with exudates from the stoma. Thus, incidental movements of the stoma will not expand the hole of the body side member permanently and the risk of adhesion of the wall of
20 a collecting bag to the distal surface is avoided.

The second adhesive surface is preferably protected by a release liner until the application of the body side member.

- 25 In another preferred embodiment of the invention, the carrier sheet on a central part of the second surface of the adhesive wafer surrounding the stoma is provided with a weakening pattern reducing the stiffness of the area for facilitating a rolling thereof. Such a pattern will weaken the carrier sheet and enable a change of the length or stretching in a tangential direction of the
30 material forming a torus when rolling the edge of a hole of an appliance of the invention and enabling an increase of the circumference of the torus during the rolling as the carrier sheet itself must show a pronounced stiffness in order to be

able to serve as mechanical stable anchoring for a coupling ring or a receiving bag. This embodiment of the invention may e.g. be based on a state of the art body side member by providing the carrier sheet on a central part of the second surface of the adhesive wafer surrounding the stoma with a weakening pattern
5 reducing the stiffness of the area for facilitating a rolling thereof.

The weakening pattern may e.g. be in the form of weakening lines or perforations and may suitably be made by punching or cutting. The pattern is preferably in the form of holes or cuts penetrating the carrier sheet for facilitating the rolling of the
10 edge.

The weakening pattern may be provided using any suitable manner known per se for providing cuts through an outer layer of a sandwich construction, e.g. using mechanical cutting or punching tools or using laser cutting.
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In another preferred embodiment the carrier sheet is absent in on a part of the second surface of the wafer the adhesive wafer surrounding the stoma. This embodiment provides in itself for a thinner area next to the central hole facilitating the rolling of the edge and also eliminates the stiffness provided by the carrier
20 sheet in this area.

In this embodiment, the adhesive surface on the second surface of the adhesive wafer may be constituted of the second surface itself, especially if the exposed second surface is an adhesive showing slow absorption of humidity, or a second
25 layer of adhesive may be disposed in this area. When using a hydrophobic adhesive it is preferred that this adhesive stretches under the edge of the carrier sheet for providing a better sealing and protection of a hydrocolloid adhesive.

In a further embodiment of the invention, the thickness of the adhesive wafer of
30 the body side member is smaller in the area next to the central hole for accommodating the stoma for further facilitating the rolling thereof

In a preferred embodiment of the invention the first adhesive surface of the body side member is covered with a release liner having an indication of the size of the hole of an ostomy appliance of the invention for accommodating a stoma, at the surface in contact with the adhesive (distal as compared to the ostomy) for facilitating a customisation of the hole. In the alternative, the indication may be placed on the side facing away from the body side member (proximal as compared to the ostomy) if the release liner is transparent. In an especially preferred embodiment of the invention a customised cutting guide as the one disclosed in WO 00/25709 is used.

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In a preferred embodiment of the invention the part of the adhesive wafer surrounding the stoma is in the form of an exchangeable sealing member disposed in the hole of the wafer and having a hole for accommodating a stoma. This allows for a larger period of time between exchanges of the body side member itself reducing the stress posed on the skin.

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A body side member of the invention is preferably provided with coupling means for releasable attachment of a receiving bag.

The coupling means may be any system known per se for attaching receiving bags to ostomy body side members and may suitably be matching coupling rings of the type disclosed in WO 93/18725 or WO 94/18919 or matching flanges for adhesive connection of the type disclosed in U.S. Patent No. 5,800,415.

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It is preferred that the coupling means are matching coupling rings.

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A coupling ring may e.g. be attached to the carrier sheet by adhesive means or preferably by welding

In another aspect the invention relates to an ostomy sealing member in the form of a mouldable mass or ring having a first adhesive surface which shows a sufficient adhesiveness to adhere to the skin and to seal around a stoma and between the stoma and an ostomy appliance adapted to receive secretions from

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the stoma, which sealing member has a second surface facing away from the user optionally being covered by a top film, said sealing member having a hole for accommodating a stoma and said sealing member having balanced plastic and elastic properties allowing an enlarging of the hole for receiving a stoma by rolling up the inner rim of the hole forming a torus before placing the sealing member around the stoma and wherein a part of the second surface surrounding the hole shows surface properties compatible with the first adhesive surface locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface.

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The adhesive surfaces of a sealing member of the invention are suitably covered by release liners to be removed before application as discussed above.

In a third aspect the invention relates to an ostomy appliance comprising an adhesive wafer having a first adhesive surface for securing the appliance to the user's skin, said wafer having a second surface being covered with a carrier sheet to which a receiving bag is secured, which wafer has a hole for receiving a stoma wherein the part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole by rolling up the inner rim thereof for accommodating the stoma forming a torus and wherein the second surface of a part of the wafer surrounding the hole shows properties compatible with the first adhesive surface of the adhesive wafer locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface.

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In a preferred embodiment of the invention *a separator piece located between the carrier sheet and the adhesive. Such a separator sheet is preferably located in the central part of the adhesive wafer and may be used as temporary support during rolling of the edge of the hole of a base plate, a sealing member or an ostomy appliance of the invention. In one embodiment of the invention, the separator piece is provided with a weakening zone in the form of a cut defining a*

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central part of the separator piece, which part may be detached separately. Such a weakening zone may be provided as disclosed above. In a preferred embodiment of the invention the separator piece has an indication of the size of the hole of an ostomy appliance of the invention for accommodating a stoma as indicated above.

In a fourth aspect the invention relates to a method of applying an ostomy appliance body side member comprising an adhesive wafer having a first adhesive surface for securing the appliance to a user's skin and a second surface being covered with a carrier sheet and a hole for receiving a stoma wherein a part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole by rolling up the inner rim thereof for accommodating the stoma and having an inner rim, and wherein the second surface of a part of the wafer surrounding the hole shows properties compatible with the first adhesive surface of the adhesive wafer locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface, said method comprising enlarging the hole by rolling the inner rim of the hole adapting of the hole to the size of the stoma forming a torus, locking the torus to the second surface in its rolled position by contact between the second surface and the first adhesive surface, aligning the stoma and the hole of the ostomy appliance body side member for accommodating the stoma and placing the body side member on the abdomen of the ostomate with the stoma projecting into the hole.

In a fifth aspect the invention relates to a method of applying an ostomy appliance body side member comprising an adhesive wafer having a first adhesive surface for securing the appliance to a user's skin and a second surface being covered with a carrier sheet and a first hole comprising a sealing member in the form of a mouldable mass or ring having a first adhesive surface which shows a sufficient adhesiveness to adhere to the skin and to seal around a stoma and between the stoma and the ostomy body side member, which sealing

member has a second surface facing away from the user optionally being covered by a top film and a second hole for accommodating a stoma, and having an inner rim, and said sealing member having balanced plastic and elastic properties allowing an enlarging of the second hole for receiving a stoma by rolling up the inner rim thereof for accommodating the stoma forming a torus, and wherein a part of the second surface of the sealing member surrounding the hole shows properties compatible with the first adhesive surface of the adhesive sealing member locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface, said method comprising a) locating the stoma and aligning the stoma and the hole of the body side member and placing the body side member on the abdomen of the ostomate with the stoma projecting into the hole, b) enlarging the hole of the sealing member by rolling the inner rim of the hole of the sealing member forming a torus, c) adapting the hole to the size of the stoma, d) locking the torus to the second surface of the sealing member in its rolled position by contact between the adhesive surface and the second surface of the sealing member, e) aligning the stoma and the second hole of the ostomy sealing member and f) placing the same in the first hole of the body side member on the abdomen of the ostomate with the stoma projecting into the second hole.

In a sixth aspect the invention relates to a method of applying a one-piece ostomy appliance comprising an adhesive wafer having a first adhesive surface for securing the appliance to the user's skin, said wafer having a second surface being covered with a carrier sheet to which a receiving bag is secured, which wafer has a hole for receiving a stoma and having an inner rim, wherein a part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole by rolling up the inner rim thereof for accommodating the stoma forming a torus, and wherein the second surface of a part of the wafer surrounding the hole shows properties compatible with the first adhesive surface of the adhesive wafer locking the torus to the first surface in its rolled position by the contact between the second surface and the first adhesive

surface, said method comprising enlarging the hole by rolling the inner rim of the hole adapting of the hole to the size of the stoma forming a torus, locking the torus to the first surface in its rolled position by contact between the second surface and the first adhesive surface, aligning the stoma and the hole of the
5 ostomy appliance for accommodating the stoma and placing the ostomy appliance on the abdomen of the ostomate with the stoma projecting into the hole.

An ostomy body side member or an ostomy appliance according to the invention
10 may be produced from standard materials normally used for preparation of disposable ostomy and wound and incontinence devices. Thus, the carrier sheet may be any suitable thermoplastic material known per se for use in the preparation of ostomy appliances e.g. a foam, a non-woven layer or a polyurethane, polyethylene, polyester or polyamide film and the adhesive wafer
15 itself may be made from a medical grade barrier adhesives comprising hydrocolloids known in the art such as the formulations being disclosed, for example in US Patents Nos. 4,367,732, 5,051,259 or 5,714,225.

An adhesive wafer suitably comprises an adhesive, which absorbs humidity such
20 as perspiration. A second adhesive material may be formulated without hydrocolloids or using a minor amount of hydrocolloids or using ma material such as potato starch which has been found to have a low absorbing capacity when formulated in medical adhesives in order to ensure that a second adhesive preferably shows a lower absorption in order to prolong the service time of a
25 product of the invention.

In accordance with a preferred embodiment of the invention an adhesive wafer assembly for use for the manufacture of an ostomy body side member or an ostomy appliance of the invention is made using the technology disclosed in EP
30 Patent No. 1 117 516 providing a suitable manner for producing multi layered products comprising discrete components such as a separator piece. Thus, a product according to the invention having a separator piece located between the

carrier sheet and the adhesive may be produced in analogy with the method disclosed in EP 1 117 516 by placing a separator sheet on the carrier sheet before dispensing the adhesive.

- 5 A receiving bag for use with a body side member or an ostomy appliance of the invention may be known per se and comprise front and rear walls sealed together along the rim and provided with an inlet opening may be made in analogy with and from materials conventionally used for the preparation of ostomy appliances.
- 10 Such materials are suitably films composed of any suitable material, which is heat sealable and sufficiently impervious for unpleasant odours such as polyolefin films or combinations of such films, e.g. polyethylene or a coextrudate of polyethylene and polyvinylidene chloride.
- 15 A protective cover or release liner may for instance be siliconized paper. It does not need to have the same contour as body side member, e.g. a number of body side members or especially sealing members may be attached to a larger sheet of protective cover. The protective cover is not present during the use of the ostomy appliance of the invention and is therefore not an essential part of the
- 20 invention.

In a preferred embodiment of the invention the protective cover or release liner is provided with a weakening zone in the form of a cut defining a central part of the release liner which may be detached separately leaving the remaining part of the

25 release liner on the adhesive surface.

Description of the Preferred Embodiments

The invention is now explained more in detail with reference to the drawings showing preferred embodiments of the invention.

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Reference is made to Fig. 1 which shows a cross sectionally view of an ostomy body side member 1 of the state of the art comprising an adhesive wafer 2 having

a first surface for securing the appliance to the user's skin S, said wafer having a second surface being covered by a carrier sheet **3** conventionally used, e.g. a LDPE or a PU film, which wafer has a hole for receiving a stoma wherein the part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole by rolling up the inner rim thereof for accommodating the stoma. Furthermore, the body side member is provided with a coupling ring **4** for attachment of a receiving bag provided with a matching coupling ring and a release liner **5** for protecting the first adhesive surface until use.

Fig. 2 shows a cross sectional view of an embodiment of an ostomy appliance body side member **10** according to the invention comprising an adhesive wafer **12** having a first adhesive surface for securing the appliance to the user's skin S, said adhesive having a second surface being covered by a carrier sheet **13** conventionally used for ostomy appliances. Furthermore, the body side member is provided with a coupling ring **14** for attachment of a receiving bag and a release liner **15** for protecting the first adhesive surface until use. The carrier sheet is absent on a central part of the second surface of the adhesive wafer **12** surrounding the stoma. The body side member comprises a second layer of adhesive **16** disposed on the second surface of the wafer surrounding the stoma and stretching under the inner rim of the carrier sheet **13** and a release liner **15** covering said second layer of adhesive. The release liner is to be removed before application of the appliance. A receiving bag provided with a matching coupling ring may be secured to the coupling ring in a manner known per se.

Fig. 3 shows a cross sectional view of a sealing member of the invention comprising an adhesive wafer **22**, having a carrier sheet **23** having mechanical properties similar to the adhesive which wafer is thinner in the area next to the central hole for accommodating the stoma and is provided with a release liner **25** for protecting the adhesive surface until use. The sealing member comprises a second layer of adhesive **26** disposed on the second distal surface of the

member surrounding the stoma. The sealing member is furthermore provided with a flange part **28** for attaching the sealing member to the surface of a body side.

- 5 In Fig. 4, the rim of the central hole has been rolled up forming a torus **29** and revealing a larger part of the surface of the release liner **25** below and of the indication of the size of the hole.

- 10 Fig. 5 shows a top view from the distal side of a separate sealing member **20** of the invention having a hole for accommodating a stoma in which the rim of the hole has been partially rolled for forming the torus into a shape **30** to fit an irregular stoma and showing the indication of the size of the hole placed on a release liner **25** visible through the hole.

- 15 Fig. 6 shows an exploded sectional view of a second embodiment of a body side member **30** according to the invention comprising an adhesive wafer **32** having a first adhesive surface for securing the appliance to the user's skin S, said adhesive having a second surface being covered by a carrier sheet **33** conventionally used for ostomy appliances. Furthermore, the body side member
- 20 is provided with a coupling ring **34** for attachment of a receiving bag and a release liner **35** for protecting the first adhesive surface until use. The carrier sheet is provided with a weakening zone in the form of a cut **33a** defining a central part **39** of the carrier sheet, which may be detached separately. The body side member comprises a second layer of adhesive **36** disposed on the second
- 25 surface of the wafer surrounding the stoma and stretching under the inner rim of the carrier sheet **33** and a separator piece **38** covering the central part of the second layer of adhesive. Furthermore, the separator piece on the central part of the carrier sheet is provided with a weakening zone in the form of a cut **38a** defining a central part of the separator piece **38**, which may be detached
- 30 separately. The central part of the carrier sheet may be removed when manufacturing the base plate or immediately before the use. When preparing the base plate for use, the user or an assistant removes the central part of the

separator piece, optionally bending the base plate to produce a break in the weakening lines and then rolls the edge of the hole forming a torus and adapting the size of the hole to the stoma. This may be done using a table as support, whereafter the release liner is removed and the base plate applied to the user
 5 and a receiving bag provided with a matching coupling ring may be secured to the coupling ring in a manner known per se.

Figs. 7 and 8 illustrate a one-piece ostomy appliance according to the invention. Fig. 7 shows an exploded cross sectional view of an embodiment of an ostomy
 10 appliance **40** according to the invention comprising an adhesive wafer **42** having a first adhesive surface for securing the appliance to the user's skin S, said adhesive having a second surface being covered by a carrier sheet **43** conventionally used for ostomy appliances. Furthermore, the appliance is provided with a receiving bag **50** and a release liner **45** for protecting the first
 15 adhesive surface until use. The carrier sheet is provided with a weakening zone in the form of a cut **43a** defining a central part **49** of the carrier sheet, which may be detached separately. The appliance comprises a second layer of adhesive **46** disposed on the second surface of the wafer surrounding the stoma and stretching under the inner rim of the carrier sheet **43** and a separator piece **48**
 20 covering the central part of the second layer of adhesive. Furthermore, the separator piece on the central part of the carrier sheet is provided with a weakening zone in the form of a cut **48a** defining a central part of the separator piece **48**, which may be detached separately. The central part of the carrier sheet may be removed when manufacturing the base plate before securing the bag **50**.
 25 Furthermore, the release liner **45** is provided with a weakening zone in the form of a cut **45a** defining a central part of the release liner which may be detached separately leaving the remaining part of the release liner on the adhesive surface. When preparing the appliance for use, the user or an assistant removes the central part of the release liner, optionally bending the appliance to produce a
 30 break in the weakening lines and then rolls the edge of the hole outwards forming a torus and adapting the size of the hole to the stoma. This may be done using a table as support, and the separator piece protects the bag from adhering to an

adhesive surface during this process. Then the separator piece is punched into the bag, the remaining part of the release liner is removed, and the appliance is applied to the user.

- 5 Fig. 8 shows a cross sectional view of the embodiment of Fig. 7 wherein the inner rim of a sealing member has been rolled up during application around the stoma **100** and with the separator piece located in the bag.

Claims

1. An ostomy appliance body side member comprising an adhesive wafer having a first adhesive surface for securing the appliance to the user's skin, said wafer
5 having a second surface being covered with a carrier sheet which wafer has a hole for receiving a stoma wherein a part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole for accommodating the stoma by rolling up the inner rim thereof forming a torus and
10 wherein a part of the second surface of the wafer surrounding the hole shows surface properties compatible with the first adhesive surface of the adhesive wafer locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface.
- 15 2. A body side member as claimed in claim 1 wherein the part of the second surface surrounding the hole shows adhesive properties compatible with the first adhesive surface of the adhesive wafer.
- 20 3. A body side member as claimed in claim 2 wherein the part of the second surface surrounding the stoma is provided with a hydrophobic adhesive.
4. A body side member as claimed in claim 1 wherein the carrier sheet on a central part of the second surface of the adhesive wafer surrounding the stoma is provided with a weakening pattern.
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5. A body side member as claimed in claim 1 wherein the carrier sheet is absent on a part of the second surface of the wafer the adhesive wafer surrounding the stoma.
- 30 6. A body side member as claimed in any of claims 1-5 wherein the part of the adhesive wafer surrounding the stoma is in the form of an exchangeable sealing

member disposed in the hole of the wafer and having a hole for accommodating a stoma.

7. A body side member as claimed in any of claims 1-6 being provided with
5 coupling means for releasable attachment of a receiving bag.

8. A body side member as claimed in claim 7 wherein the coupling means are matching coupling rings.

10 9. An ostomy sealing member in the form of a mouldable mass or ring having a first adhesive surface which shows a sufficient adhesiveness to adhere to the skin and to seal around a stoma and between the stoma and an ostomy appliance adapted to receive secretions from the stoma, which sealing member has a second surface facing away from the user optionally being covered by a
15 top film, said sealing member having a hole for accommodating a stoma and said sealing member having balanced plastic and elastic properties allowing an enlarging of the hole for receiving a stoma by rolling up the inner rim of the hole forming a torus before placing the sealing member around the stoma and wherein a part of the second surface surrounding the hole shows surface properties
20 compatible with the first adhesive surface locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface.

10. An ostomy appliance comprising an adhesive wafer having a first adhesive
25 surface for securing the appliance to the user's skin, said wafer having a second surface being covered with a carrier sheet to which a receiving bag is secured, which wafer has a hole for receiving a stoma wherein the part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma
30 by enlarging the hole by rolling up the inner rim thereof for accommodating the stoma forming a torus and wherein the second surface of a part of the wafer surrounding the hole shows properties compatible with the first adhesive surface

of the adhesive wafer locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface.

11. A method of applying an ostomy appliance body side member comprising an adhesive wafer having a first adhesive surface for securing the appliance to a user's skin and a second surface being covered with a carrier sheet and a hole for receiving a stoma wherein a part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole by rolling up the inner rim thereof for accommodating the stoma and having an inner rim, and wherein the second surface of a part of the wafer surrounding the hole shows properties compatible with the first adhesive surface of the adhesive wafer locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface, said method comprising enlarging the hole by rolling the inner rim of the hole adapting of the hole to the size of the stoma forming a torus, locking the torus to the second surface in its rolled position by contact between the second surface and the first adhesive surface, aligning the stoma and the hole of the ostomy appliance body side member for accommodating the stoma and placing the body side member on the abdomen of the ostomate with the stoma projecting into the hole.

12. A method of applying an ostomy appliance body side member comprising an adhesive wafer having a first adhesive surface for securing the appliance to a user's skin and a second surface being covered with a carrier sheet and a first hole comprising a sealing member in the form of a mouldable mass or ring having a first adhesive surface which shows a sufficient adhesiveness to adhere to the skin and to seal around a stoma and between the stoma and the ostomy body side member, which sealing member has a second surface facing away from the user optionally being covered by a top film and a second hole for accommodating a stoma, and having an inner rim, and said sealing member having balanced plastic and elastic properties allowing an enlarging of the second hole for receiving a stoma by rolling up the inner rim thereof for

accommodating the stoma forming a torus, and wherein a part of the second surface of the sealing member surrounding the hole shows properties compatible with the first adhesive surface of the adhesive sealing member locking the torus to the second surface in its rolled position by the contact between the second

5 surface and the first adhesive surface, said method comprising a) locating the stoma and aligning the stoma and the hole of the body side member and placing the body side member on the abdomen of the ostomate with the stoma projecting into the hole, b) enlarging the hole of the sealing member by rolling the inner rim of the hole of the sealing member forming a torus, c) adapting the hole to the size

10 of the stoma, d) locking the torus to the second surface of the sealing member in its rolled position by contact between the adhesive surface and the second surface of the sealing member, e) aligning the stoma and the second hole of the ostomy sealing member and f) placing the same in the first hole of the body side member on the abdomen of the ostomate with the stoma projecting into the

15 second hole.

13. A method of applying a one-piece ostomy appliance comprising an adhesive wafer having a first adhesive surface for securing the appliance to the user's skin, said wafer having a second surface being covered with a carrier sheet to which a

20 receiving bag is secured, which wafer has a hole for receiving a stoma and having an inner rim, wherein a part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole by rolling up the inner rim thereof for accommodating the stoma forming a torus, and wherein

25 the second surface of a part of the wafer surrounding the hole shows properties compatible with the first adhesive surface of the adhesive wafer locking the torus to the first surface in its rolled position by the contact between the second surface and the first adhesive surface, said method comprising enlarging the hole by rolling the inner rim of the hole adapting of the hole to the size of the stoma

30 forming a torus, locking the torus to the first surface in its rolled position by contact between the second surface and the first adhesive surface, aligning the stoma and the hole of the ostomy appliance for accommodating the stoma and

placing the ostomy appliance on the abdomen of the ostomate with the stoma projecting into the hole.

Abstract**An Ostomy Appliance**

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An ostomy appliance body side member or an ostomy appliance comprising an adhesive wafer having a first adhesive surface for securing the appliance to the user's skin, said wafer having a second surface being covered with a carrier sheet which wafer has a hole for receiving a stoma wherein a part of the adhesive wafer surrounding the stoma shows balanced plastic and elastic properties allowing an adaptation of the size of the hole of the ostomy appliance to a stoma by enlarging the hole for accommodating the stoma by rolling up the inner rim thereof forming a torus and wherein a part of the second surface of the wafer surrounding the hole shows surface properties compatible with the first adhesive surface of the adhesive wafer locking the torus to the second surface in its rolled position by the contact between the second surface and the first adhesive surface enables a simple, safe and reliable customisation of the hole of a body side member without the use of tools and at the same time provides means for reducing the risk of causing injury to or constriction of the stoma.

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